1732  
60137-046#5  
N.I.H  
7-28-03

Applicant: Charles M. Brown

Serial No.: 10/087,676

Filed: March 1, 2002

Examiner: Unknown

Group Art Unit: 1732

Title: OPEN MOLD MULTI-LAP MANUFACTURING PROCESS

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TC 1700

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:


PTO form 1449 is submitted herewith pursuant to the provisions of 37 CFR 1.97 and 1.98(a) as a means of complying with the requirements of 37 CFR 1.56 with respect to the above-identified application. In accordance with Patent Office guidelines, copies of the citations listed on PTO 1449 are enclosed. None of these references discloses the invention claimed in the subject application. Also enclosed is the Search Report.

Pursuant to 37 C.F.R. 1.97(e)(1), each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement. Applicant respectfully requests the Examiner to consider the enclosed references on PTO-1449 submitted herewith.

Should there be a fee associated with this document, please charge it to Deposit Account No. 50-1482, in the name of Carlson, Gaskey & Olds, P.C.

Respectfully submitted,

**CARLSON, GASKEY & OLDS, P.C.**



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Registration No. 46,350  
400 West Maple Road, Suite 350  
Birmingham, MI 48009  
(248) 988-8360

Dated: July 15, 2003

**CERTIFICATE OF MAILING**

I hereby certify that the enclosed **Supplemental IDS, Form PTO-1449, search report, and references cited** are being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on July 15, 2003



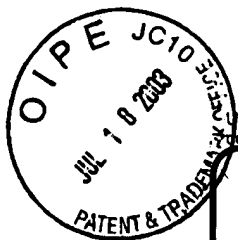
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Beth A. Beard

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PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
		<b>Application Number</b>	10/087,676
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Filing Date</b>	March 1, 2002
		<b>First Named Inventor</b>	Charles M. Brown
(use as many sheets as necessary)		<b>Art Unit</b>	1732
		<b>Examiner Name</b>	
Sheet 1	of 2	<b>Attorney Docket Number</b>	60,137-046

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
		US- 4,952,366	08-28-1990	Gelin	
		US- 4,961,888	10-09-1990	Brown	
		US- 6,350,491	02-26-2002	Williams	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
		EP 0 055 862	07-14-1982	Delorean Res Ltd		
		Pat Abs of Japan JP05069494	03-23-1993	Sekisui Chem Co. Ltd		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

### Complete if Known

Application Number	10/087,676
Filing Date	May 1, 2002
First Named Inventor	Charles M. Brown
Group Art Unit	1732
Examiner Name	
Attorney Docket Number	60,137-046

### OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		HILLIS, D. R.; DAVIS A.D.: "Waste Reduction Strategies for Fiberglass Fabricators", East Carolina University, Dept. of Industrial Technology, Online! 1995, XP002244269	
		LACOVARA, R.: "Pollution prevention for open molding composites", Composites Fabricators Association, Online!, April 2000, XP002244270	
		JURINSKY, J.B.: "Relationships between capture of vapor emissions and occupational exposures for open molding of reinforced plastic composites" Composites Fabricators Association, Online, August 10, 2001, XP002244271	
		SCHWANBERGER, R.: "How robots are used in the composites industry", Composites Fabrication Magazine, Reprint, Online, March 2000, XP002244272	
		HAMILTON, W.K.: "Open moulders prepare for the future", Reinforced Plastics, Elsevier Advanced Technology, New York, NY, US, vol. 45, no. 1, January 2001, pages 18-20, 22, 24, XP004331889	
		PCT International search report, dated June 13, 2003	

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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